

Accounting Notes to Game 6A

1981

November and January SWP export debts are too high. 500 cfs benefit in June should be July and 30 instead of 10. These errors cancel. Not worth making changes.

1982

Made changes here. The December/ January SWP export cuts not reflected as new debt in SLR storage account. Also, January cut is 68 kaf, not 59 kaf as originally inserted. Making this correction increases EWA debt and makes Tier 3 problem greater.

Also, must now change accounting to show CVP benefit of 100 kaf from JPOD lost when EWA export cuts made. This is reflected in column AY of table.

Finally, SWP essentially fills in Feb, then just before VAMP. This creates JPOD for the EWA debt in SWP side of SLR. CVP must be credited for half. The filling of SWP reduces the error by about half. However, debt remains about 40 kaf higher than initially thought. Not a major problem, since SLR fills next year anyway,

1983

The transition from 1982 to 1983 appears to be incorrect. The carryover storage in the daily model are continuous. This is ok, but not what I thought we were doing. I thought we were shifting debt over to the SWP side. This would have shifted CVP storage shown on the graph up by some 350 kaf and SWP storage down by 350 kaf. Not shown this way. Also, CALSIM clearly starts with too low storage. If total debt is 653 kaf, then CALSIM should be starting closer to 1.4 MAF. The main problem is the delay in onset of unscheduled water to SWP contractors. If we just use carryover debt from 1982, then EWA owes 189 to SWP. This would lead to earlier fill of SWP slr by over a month and increased deliveries by about 100 kaf. This reduces opportunities for JPOD by 100 kaf. EWA loses 50% of this water or about 50 kaf. This is reflected as increased b2 cost in november.

The change in initial debt causes changes in how JPOD is recorded. SWP fills later than thought.

Also, the SWP/ CVP split was not accurate for the first few months. Made these changes.

1984

No significant changes.

1985

Once again, initial storages for CALSIM appear incorrect. In particular, the CVP should be up by 231 compared to the Daily trace. This probably doesn't make much difference, can be dealt with during the accounting. Could make a slight difference in projected baseline deliveries, but since CVP fills in CALSIM run anyway, no harm done. Must watch the carryover values in future games very closely.

SLR got close enough in Jan and feb to spill significant amounts of debt. Not shown in first pass draft.

Corrected accounting shows EWA ending with nearly 100 kaf more than originally thought. This doesn't eliminate low point problem, though. Groundwater. However, with Surplus by end of year, ewa probably pumped too much this year. Projects probably would have source shifted for 100 kaf more of slr storage at low point.

Shifted 120 kaf of debt from cvp to swp in july and august. Shown on accounting now.

Ending debts much more balanced now, with net balance now positive. Remember that we assumed payback of source shift between years, starting SWP SLR storage next year is dropped by 100 kaf.

1986

Another problem reconciling carryover storages. SWP storage should have been dropped by 100 kaf to account for the payback to MWD. Similarly, the EWA account was docked by 100 kaf to account for this. Thus, initial SWP storage too high. CALSIM also seems to be too high. However, with corrections from 1985, values don't seem too far off. Maybe even more accurate than before.

Problem with baseline. Phantom cvp hits in july - October. Probably caused by baseline shifts. CVP cut of 450 here, but not in baseline. Will ignore these for purposes of accounting. June ewa use is canceled by 25 ewa credit for net of 44 kaf.

Carryover debts seem fairly close to those in original. Probably not much error carried over.

1987

Over cap by 107. Offset unrecovered is 100. Put 100 into offset column. Then shoot for 907.

Made a few adjustments to reflect proper distribution between cvp and swp. Ending debt had a smaller surplus on cvp side and smaller debt on swp side than before. Probably causes slight error next year.

1988

129 over the 450 kaf cap. So can shoot for 929 in the accounting.

Total offset of 464. Of this, 174 recovered within WQCP. Nothing else recovered.

1989

Initial carryover retains changes from 1988, since no other changes.

Initial pass violated the 640 kaf limit on February – September export cuts. Will fix this time by loading debt onto EWA to CVP in SLR. With this change, total debt almost exactly matches original game. However, distribution differs. More debt to feds, less to state.

1990

Made readjustments in splits between projects.

Offset of 219 with 56 credits. Net of 163. There is a mistake in original version. Assumed that net was 266. That is, didn't allow enough b2. Corrected this.

Now running a small surplus in both projects compared to original calculations.

1991

Differences from 1990 carried across. Plus some other small changes.

1992

Gave Credits to b2 for 100 kaf of credits for water picked up in Delta July and August. Also, took a bit away to account for lost offset credits. Net is major gain in total assets.

1993

Major change was adding some 132 kaf of credits from cvp for the 2/1 credit. This, plus higher ewa assets going into the year eliminates need for tier 3 this year.

1994

50 kaf more credits from CVP this year. Final result is much improved EWA assets.

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